

2009

PATENT
P56533

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

JONG-SEO CHOI *et al.*

Serial No.: 09/964,375

Examiner: QUARTERMAN, KEVIN J.

Filed: 28 September 2001

Art Unit: 2879

For: CATHODE FOR ELECTRON TUBE HAVING NEEDLE-SHAPED
CONDUCTIVE MATERIAL AND METHOD OF PREPARING THE
CATHODE (as amended)

AMENDMENT

Commissioner for Patents
P.O.Box 1450
Alexandria, VA 22313-1450

Sir:

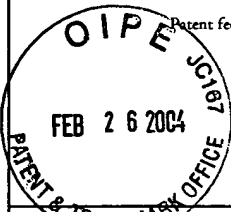
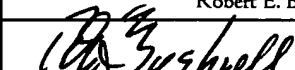
In response to the second, non-final Office action mailed on 26 November 2003
(Paper No. 1103), entry of the following amendments and remarks, re-examination and
reconsideration are respectfully requested.

03/02/2004 DTESSEM1 00000097 09964375

01 FC:1202
02 FC:1201

234.00 OP
86.00 OP

Folio: P56533
Date: 2/26/04
I.D.: REB/JGS/kf/wc

<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <p style="font-size: small; margin-top: 5px;">Patent fees are subject to annual revision.</p>		Complete If Known																																																																																																																																																																																													
		Application Number	09/964,375																																																																																																																																																																																												
		Filing Date	26 February 2004																																																																																																																																																																																												
		First Named Inventor	JONG-SEO CHOI																																																																																																																																																																																												
		Examiner Name	QUARTERMAN, KEVIN J.																																																																																																																																																																																												
		Group/Art Unit	2879																																																																																																																																																																																												
TOTAL AMOUNT OF PAYMENT		(\$)	320.00																																																																																																																																																																																												
METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																																																																																													
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:		3. ADDITIONAL FEES																																																																																																																																																																																													
Deposit Account Number: <u>02-4943</u> Deposit Account Number: _____		<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1051</td> <td>130</td> <td>2051</td> <td>65</td> <td>Surcharge-late filing fee or oath</td> <td>\$</td> </tr> <tr> <td>1052</td> <td>50</td> <td>2052</td> <td>25</td> <td>Surcharge-late provisional filing fee or cover sheet</td> <td>\$</td> </tr> <tr> <td>1053</td> <td>130</td> <td>1053</td> <td>130</td> <td>Non-English specification</td> <td>\$</td> </tr> <tr> <td>1812</td> <td>2,520</td> <td>1812</td> <td>2,520</td> <td>For filing a request for reexamination</td> <td>\$</td> </tr> <tr> <td>1804</td> <td>920*</td> <td>1804</td> <td>920*</td> <td>Requesting publication of SIR prior to Examiner action</td> <td>\$</td> </tr> <tr> <td>1805</td> <td>1,840 *</td> <td>1805</td> <td>1,840*</td> <td>Requesting publication of SIR after Examiner action</td> <td>\$</td> </tr> <tr> <td>1251</td> <td>110</td> <td>2251</td> <td>55</td> <td>Extension for reply within first month</td> <td>\$</td> </tr> <tr> <td>1252</td> <td>420</td> <td>2252</td> <td>210</td> <td>Extension for reply within second month</td> <td>\$</td> </tr> <tr> <td>1253</td> <td>950</td> <td>2253</td> <td>475</td> <td>Extension for reply within third month</td> <td>\$</td> </tr> <tr> <td>1254</td> <td>1,480</td> <td>2254</td> <td>740</td> <td>Extension for reply within fourth month</td> <td>\$</td> </tr> <tr> <td>1255</td> <td>2,010</td> <td>2255</td> <td>1,005</td> <td>Extension for reply within fifth month</td> <td>\$</td> </tr> <tr> <td>1401</td> <td>330</td> <td>2401</td> <td>165</td> <td>Notice of Appeal</td> <td>\$</td> </tr> <tr> <td>1402</td> <td>330</td> <td>2402</td> <td>165</td> <td>Filing a brief in support of an appeal</td> <td>\$</td> </tr> <tr> <td>1403</td> <td>290</td> <td>2403</td> <td>145</td> <td>Request for oral hearing</td> <td>\$</td> </tr> <tr> <td>1451</td> <td>1,510</td> <td>1451</td> <td>1,510</td> <td>Petition to institute a public use proceeding</td> <td>\$</td> </tr> <tr> <td>1452</td> <td>110</td> <td>2452</td> <td>55</td> <td>Petition to revive - unavoidable</td> <td>\$</td> </tr> <tr> <td>1453</td> <td>1,330</td> <td>2453</td> <td>665</td> <td>Petition to revive - unintentional</td> <td>\$</td> </tr> <tr> <td>1501</td> <td>1,330</td> <td>2501</td> <td>665</td> <td>Utility issue fee (or reissue)</td> <td>\$</td> </tr> <tr> <td>1502</td> <td>480</td> <td>2502</td> <td>240</td> <td>Design issue fee</td> <td>\$</td> </tr> <tr> <td>1503</td> <td>640</td> <td>2503</td> <td>320</td> <td>Plant issue fee</td> <td>\$</td> </tr> <tr> <td>1504</td> <td>300</td> <td>1504</td> <td>300</td> <td>Publication fee</td> <td>\$</td> </tr> <tr> <td>1460</td> <td>130</td> <td>1460</td> <td>130</td> <td>Petitions to the Commissioner</td> <td>\$</td> </tr> <tr> <td>1807</td> <td>50</td> <td>1807</td> <td>50</td> <td>Processing fee for provisional applications</td> <td>\$</td> </tr> <tr> <td>1806</td> <td>180</td> <td>1806</td> <td>180</td> <td>Submission of Information Disclosure Statement</td> <td>\$</td> </tr> <tr> <td>8021</td> <td>40</td> <td>8021</td> <td>40</td> <td>Recording each patent assignment per property (Times number of properties)</td> <td>\$</td> </tr> <tr> <td>1809</td> <td>770</td> <td>2809</td> <td>385</td> <td>Filing a submission after final rejection (37 C.F.R. §1.129(a))</td> <td>\$</td> </tr> <tr> <td>1810</td> <td>770</td> <td>2810</td> <td>385</td> <td>For each additional invention to be examined (37 C.F.R. §1.129(b))</td> <td>\$</td> </tr> <tr> <td>1801</td> <td>770</td> <td>2801</td> <td>385</td> <td>Request for Continued Examination (RCE)</td> <td>\$</td> </tr> <tr> <td colspan="4">Other Fee (specify) _____</td> <td>\$</td> </tr> <tr> <td colspan="4">Other Fee (specify) _____</td> <td>\$</td> </tr> </tbody> </table>		Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1051	130	2051	65	Surcharge-late filing fee or oath	\$	1052	50	2052	25	Surcharge-late provisional filing fee or cover sheet	\$	1053	130	1053	130	Non-English specification	\$	1812	2,520	1812	2,520	For filing a request for reexamination	\$	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	\$	1805	1,840 *	1805	1,840*	Requesting publication of SIR after Examiner action	\$	1251	110	2251	55	Extension for reply within first month	\$	1252	420	2252	210	Extension for reply within second month	\$	1253	950	2253	475	Extension for reply within third month	\$	1254	1,480	2254	740	Extension for reply within fourth month	\$	1255	2,010	2255	1,005	Extension for reply within fifth month	\$	1401	330	2401	165	Notice of Appeal	\$	1402	330	2402	165	Filing a brief in support of an appeal	\$	1403	290	2403	145	Request for oral hearing	\$	1451	1,510	1451	1,510	Petition to institute a public use proceeding	\$	1452	110	2452	55	Petition to revive - unavoidable	\$	1453	1,330	2453	665	Petition to revive - unintentional	\$	1501	1,330	2501	665	Utility issue fee (or reissue)	\$	1502	480	2502	240	Design issue fee	\$	1503	640	2503	320	Plant issue fee	\$	1504	300	1504	300	Publication fee	\$	1460	130	1460	130	Petitions to the Commissioner	\$	1807	50	1807	50	Processing fee for provisional applications	\$	1806	180	1806	180	Submission of Information Disclosure Statement	\$	8021	40	8021	40	Recording each patent assignment per property (Times number of properties)	\$	1809	770	2809	385	Filing a submission after final rejection (37 C.F.R. §1.129(a))	\$	1810	770	2810	385	For each additional invention to be examined (37 C.F.R. §1.129(b))	\$	1801	770	2801	385	Request for Continued Examination (RCE)	\$	Other Fee (specify) _____				\$	Other Fee (specify) _____				\$
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																										
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																												
1051	130	2051	65	Surcharge-late filing fee or oath	\$																																																																																																																																																																																										
1052	50	2052	25	Surcharge-late provisional filing fee or cover sheet	\$																																																																																																																																																																																										
1053	130	1053	130	Non-English specification	\$																																																																																																																																																																																										
1812	2,520	1812	2,520	For filing a request for reexamination	\$																																																																																																																																																																																										
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	\$																																																																																																																																																																																										
1805	1,840 *	1805	1,840*	Requesting publication of SIR after Examiner action	\$																																																																																																																																																																																										
1251	110	2251	55	Extension for reply within first month	\$																																																																																																																																																																																										
1252	420	2252	210	Extension for reply within second month	\$																																																																																																																																																																																										
1253	950	2253	475	Extension for reply within third month	\$																																																																																																																																																																																										
1254	1,480	2254	740	Extension for reply within fourth month	\$																																																																																																																																																																																										
1255	2,010	2255	1,005	Extension for reply within fifth month	\$																																																																																																																																																																																										
1401	330	2401	165	Notice of Appeal	\$																																																																																																																																																																																										
1402	330	2402	165	Filing a brief in support of an appeal	\$																																																																																																																																																																																										
1403	290	2403	145	Request for oral hearing	\$																																																																																																																																																																																										
1451	1,510	1451	1,510	Petition to institute a public use proceeding	\$																																																																																																																																																																																										
1452	110	2452	55	Petition to revive - unavoidable	\$																																																																																																																																																																																										
1453	1,330	2453	665	Petition to revive - unintentional	\$																																																																																																																																																																																										
1501	1,330	2501	665	Utility issue fee (or reissue)	\$																																																																																																																																																																																										
1502	480	2502	240	Design issue fee	\$																																																																																																																																																																																										
1503	640	2503	320	Plant issue fee	\$																																																																																																																																																																																										
1504	300	1504	300	Publication fee	\$																																																																																																																																																																																										
1460	130	1460	130	Petitions to the Commissioner	\$																																																																																																																																																																																										
1807	50	1807	50	Processing fee for provisional applications	\$																																																																																																																																																																																										
1806	180	1806	180	Submission of Information Disclosure Statement	\$																																																																																																																																																																																										
8021	40	8021	40	Recording each patent assignment per property (Times number of properties)	\$																																																																																																																																																																																										
1809	770	2809	385	Filing a submission after final rejection (37 C.F.R. §1.129(a))	\$																																																																																																																																																																																										
1810	770	2810	385	For each additional invention to be examined (37 C.F.R. §1.129(b))	\$																																																																																																																																																																																										
1801	770	2801	385	Request for Continued Examination (RCE)	\$																																																																																																																																																																																										
Other Fee (specify) _____				\$																																																																																																																																																																																											
Other Fee (specify) _____				\$																																																																																																																																																																																											
2. <input checked="" type="checkbox"/> Payment Enclosed: (CHECK #45355) <input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other																																																																																																																																																																																															
FEE CALCULATION																																																																																																																																																																																															
1. BASIC FILING FEE																																																																																																																																																																																															
<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1001</td> <td>770</td> <td>2001</td> <td>385</td> <td>Utility filing fee</td> <td>\$</td> </tr> <tr> <td>1002</td> <td>340</td> <td>2002</td> <td>170</td> <td>Design filing fee</td> <td>\$</td> </tr> <tr> <td>1003</td> <td>530</td> <td>2003</td> <td>265</td> <td>Plant filing fee</td> <td>\$</td> </tr> <tr> <td>1004</td> <td>770</td> <td>2004</td> <td>385</td> <td>Reissue filing fee</td> <td>\$</td> </tr> <tr> <td>1005</td> <td>160</td> <td>2005</td> <td>80</td> <td>Provisional filing fee</td> <td>\$</td> </tr> <tr> <td colspan="4" style="text-align: right;">SUBTOTAL (1)</td> <td>(\$)</td> <td>00</td> </tr> </tbody> </table>		Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1001	770	2001	385	Utility filing fee	\$	1002	340	2002	170	Design filing fee	\$	1003	530	2003	265	Plant filing fee	\$	1004	770	2004	385	Reissue filing fee	\$	1005	160	2005	80	Provisional filing fee	\$	SUBTOTAL (1)				(\$)	00																																																																																																																																																
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																										
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																												
1001	770	2001	385	Utility filing fee	\$																																																																																																																																																																																										
1002	340	2002	170	Design filing fee	\$																																																																																																																																																																																										
1003	530	2003	265	Plant filing fee	\$																																																																																																																																																																																										
1004	770	2004	385	Reissue filing fee	\$																																																																																																																																																																																										
1005	160	2005	80	Provisional filing fee	\$																																																																																																																																																																																										
SUBTOTAL (1)				(\$)	00																																																																																																																																																																																										
2. EXTRA CLAIM FEES																																																																																																																																																																																															
<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>-20** = 13 x</td> <td>\$18.00</td> <td>= \$234.00</td> </tr> <tr> <td>Independent Claims</td> <td>-3** = 1 x</td> <td>\$86.00</td> <td>= \$86.00</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td>=</td> </tr> </tbody> </table> <p style="font-size: x-small;">** or number previously paid, if greater; For Reissues, see below</p>			Extra Claims	Fee from below	Fee Paid	Total claims	-20** = 13 x	\$18.00	= \$234.00	Independent Claims	-3** = 1 x	\$86.00	= \$86.00	Multiple Dependent			=																																																																																																																																																																														
	Extra Claims	Fee from below	Fee Paid																																																																																																																																																																																												
Total claims	-20** = 13 x	\$18.00	= \$234.00																																																																																																																																																																																												
Independent Claims	-3** = 1 x	\$86.00	= \$86.00																																																																																																																																																																																												
Multiple Dependent			=																																																																																																																																																																																												
<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1201</td> <td>86</td> <td>2201</td> <td>43</td> <td>Independent claims in excess of 3</td> </tr> <tr> <td>1202</td> <td>18</td> <td>2202</td> <td>9</td> <td>Claims in excess of 20</td> </tr> <tr> <td>1203</td> <td>290</td> <td>2203</td> <td>145</td> <td>Multiple dependent claim, if not paid</td> </tr> <tr> <td>1204</td> <td>86</td> <td>2204</td> <td>43</td> <td>** Reissue independent claims over original patent</td> </tr> <tr> <td>1205</td> <td>18</td> <td>2205</td> <td>9</td> <td>** Reissue claims in excess of 20 and over original patent</td> </tr> <tr> <td colspan="4" style="text-align: right;">SUBTOTAL (2)</td> <td>(\$)</td> <td>320.00</td> </tr> </tbody> </table>		Large Entity		Small Entity		Fee Description	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1201	86	2201	43	Independent claims in excess of 3	1202	18	2202	9	Claims in excess of 20	1203	290	2203	145	Multiple dependent claim, if not paid	1204	86	2204	43	** Reissue independent claims over original patent	1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	SUBTOTAL (2)				(\$)	320.00																																																																																																																																																						
Large Entity		Small Entity		Fee Description																																																																																																																																																																																											
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																												
1201	86	2201	43	Independent claims in excess of 3																																																																																																																																																																																											
1202	18	2202	9	Claims in excess of 20																																																																																																																																																																																											
1203	290	2203	145	Multiple dependent claim, if not paid																																																																																																																																																																																											
1204	86	2204	43	** Reissue independent claims over original patent																																																																																																																																																																																											
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																																											
SUBTOTAL (2)				(\$)	320.00																																																																																																																																																																																										
		** Reduced by Basic Filing Fee Paid SUBTOTAL (3) \$0.00																																																																																																																																																																																													
SUBMITTED BY		Complete (if applicable)																																																																																																																																																																																													
Typed or Printed Name	Robert E. Bushnell, Esq.	Reg. Number	27,774																																																																																																																																																																																												
Signature		Date	26 February 2004																																																																																																																																																																																												
		Deposit Account User ID																																																																																																																																																																																													

REB/wc

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.